

ABSTRACT OF THE DISCLOSURE

A display apparatus for providing an image on a curved display surface includes a line image generation apparatus for generating a modulated line image, where the line image generation apparatus includes a laser light source for
5 providing an illumination beam, a linear spatial light modulator for modulating the illumination beam to provide a modulated line image as at least one diffracted order of the illumination beam, a projection lens for directing the modulated line image toward a line image scanner for scanning the modulated light beam to form a two-dimensional image on the curved display surface, wherein the line image
10 scanner is optically disposed near the center of curvature of the curved display surface.